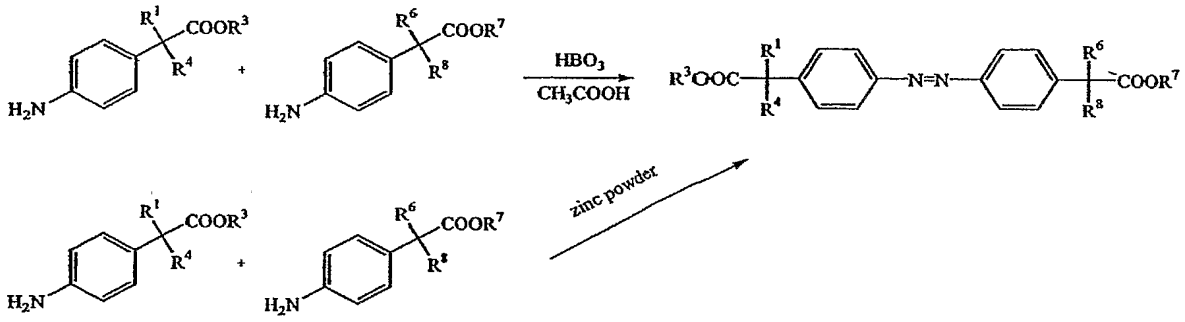

FIGURE 1

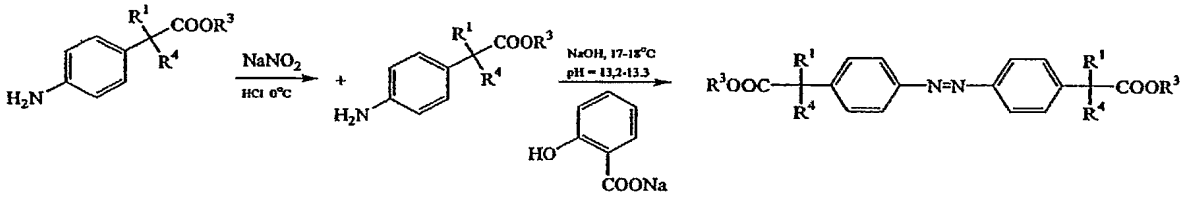
R1
COOR3
R4
H2N
NaNO2
HCl 0°C
+
NaOH, 17-18°C
pH = 13,2-13,3
HO
COONa
R3OOC
N=N

FIGURE 2

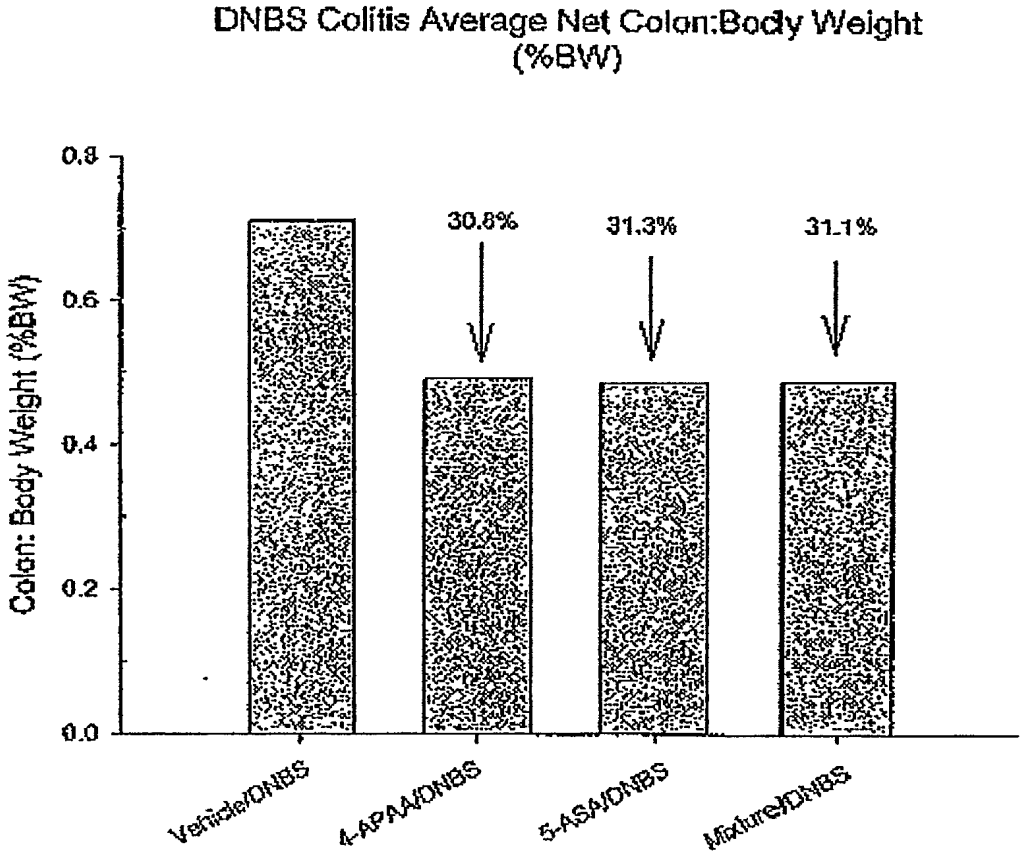
DNBS Colitis Average Net Colon:Body Weight (%BW)
Colon: Body Weight (%BW)
0.8
0.6
0.4
0.2
0.0
30.6%
31.3%
31.1%
Vehicle/DNBS
4-APAA/DNBS
5-ASA/DNBS
Mixture/DNBS

FIGURE 3

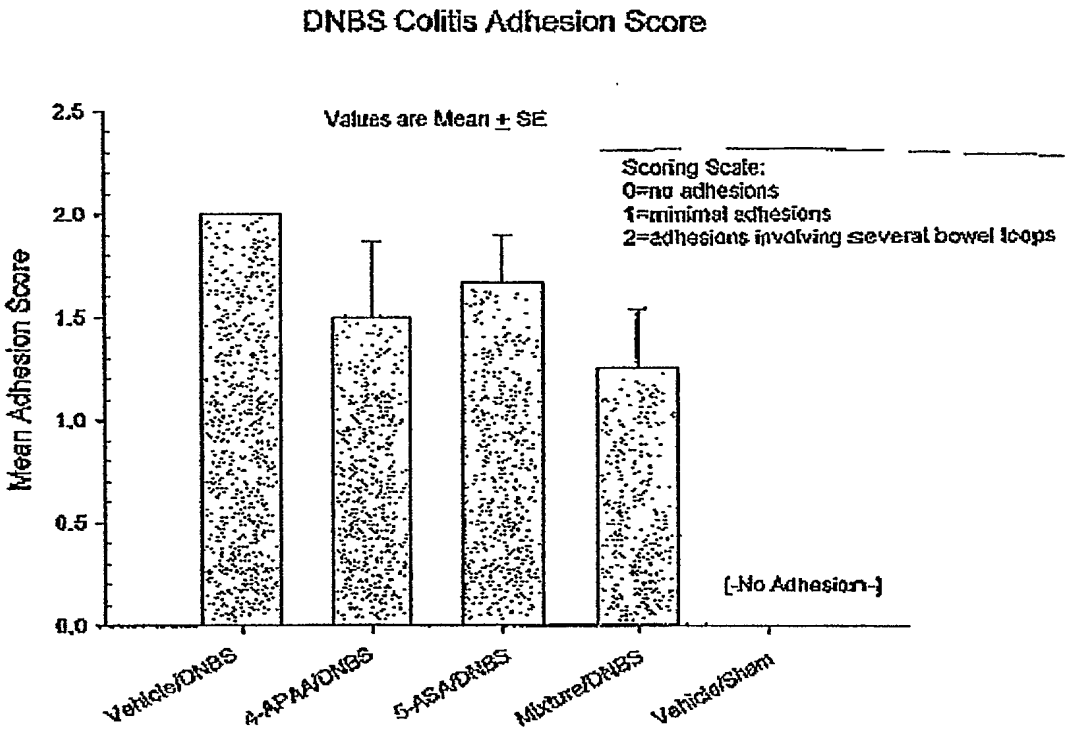
DNBS Colitis Adhesion Score
Values are Mean ± SE
Scoring Scale:
0=no adhesions
1=minimal adhesions
2=adhesions involving several bowel loops
Mean Adhesion Score
2.5
2.0
1.5
1.0
0.5
0.0
[-No Adhesion-]
Vehicle/DNBS
4-APAA/DNBS
5-ASA/DNBS
Mixture/DNBS
Vehicle/Sham

FIGURE 4

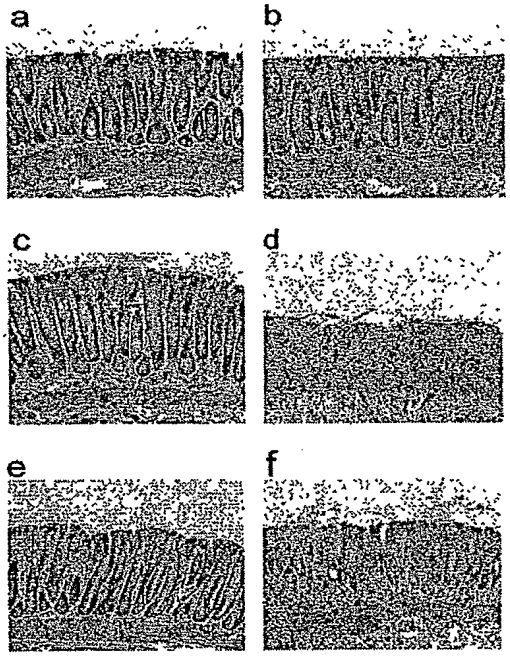

FIGURE 5

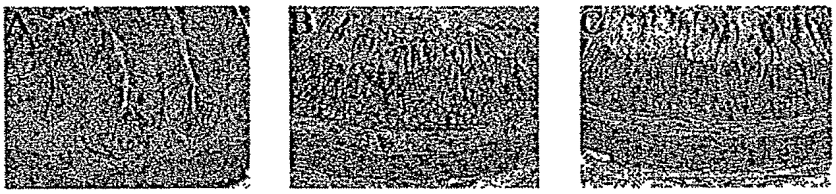

FIGURE 6

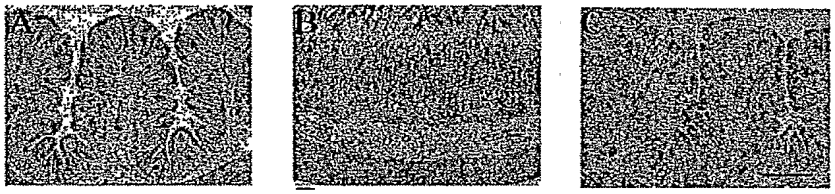

FIGURE 7

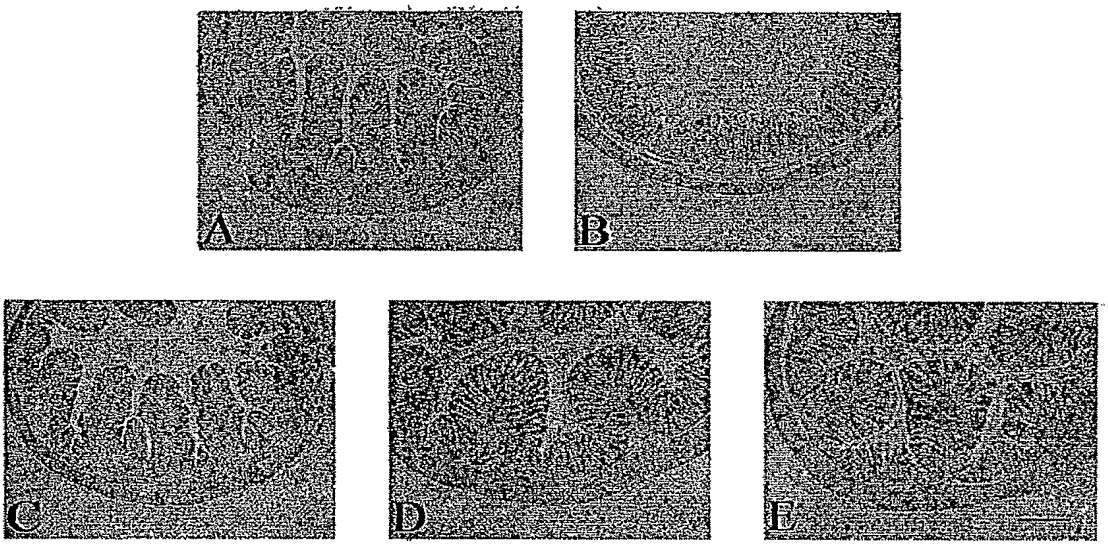

FIGURE 8

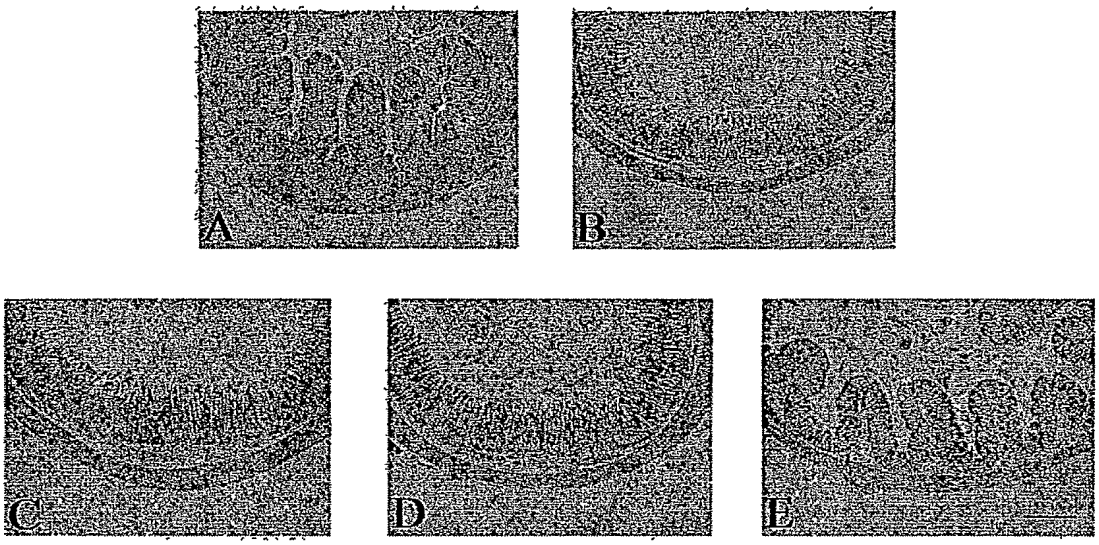

FIGURE 9

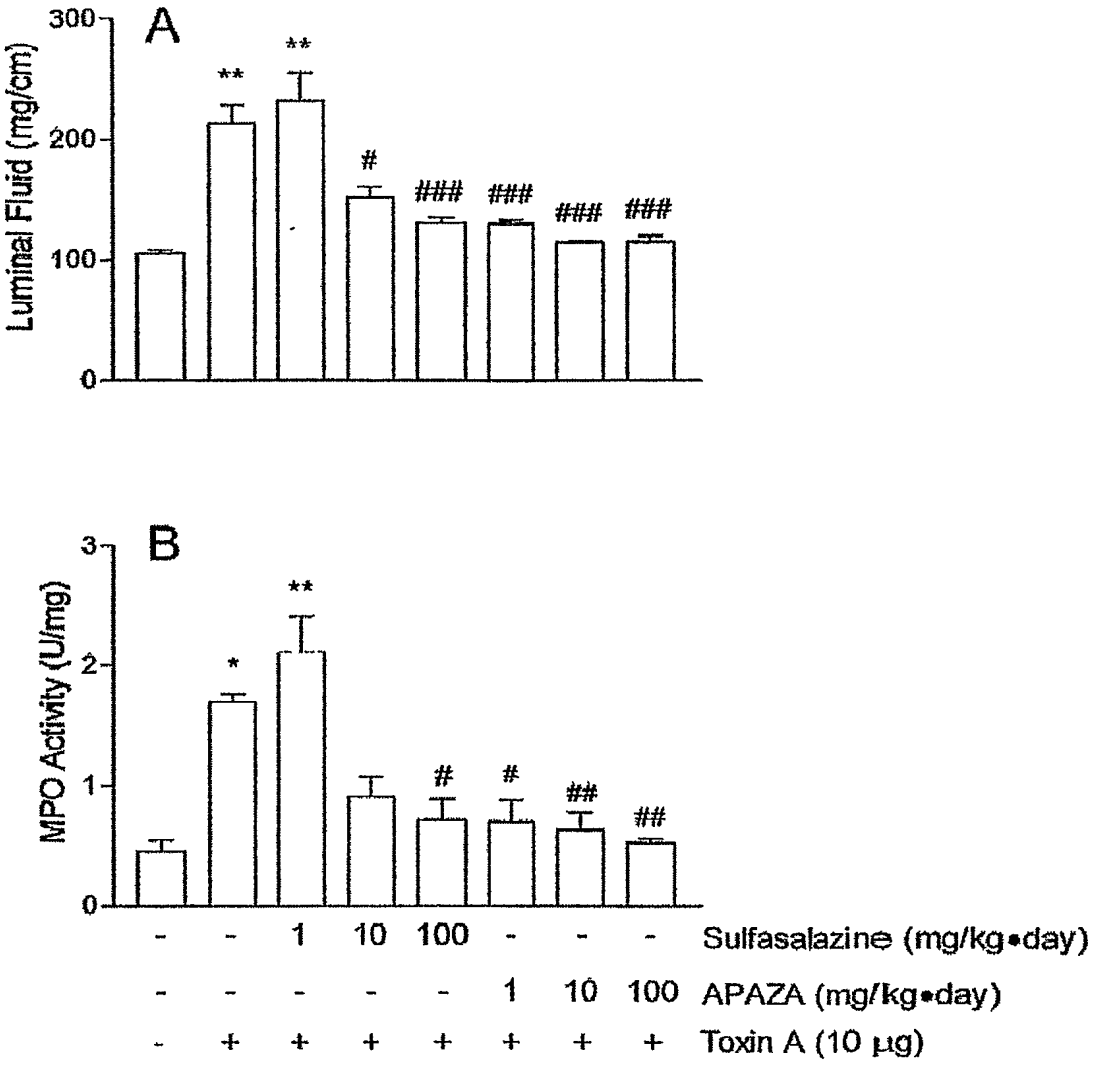
A
Luminal Fluid (mg/cm)
300
200
100
0
**
**
#
###
###
###
###
B
MPO Activity (U/mg)
3
2
1
0
*
**
#
#
##
##
- - 1 10 100 - - - Sulfasalazine (mg/kg•day)
- - - - - 1 10 100 APAZA (mg/kg•day)
- + + + + + + + Toxin A (10 µg)

FIGURE 10

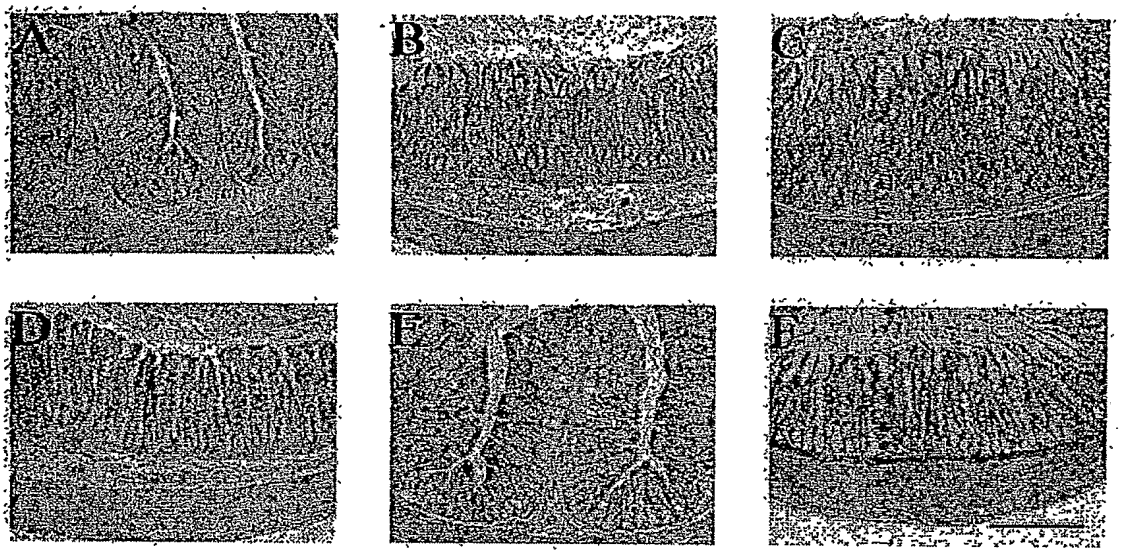

FIGURE 11

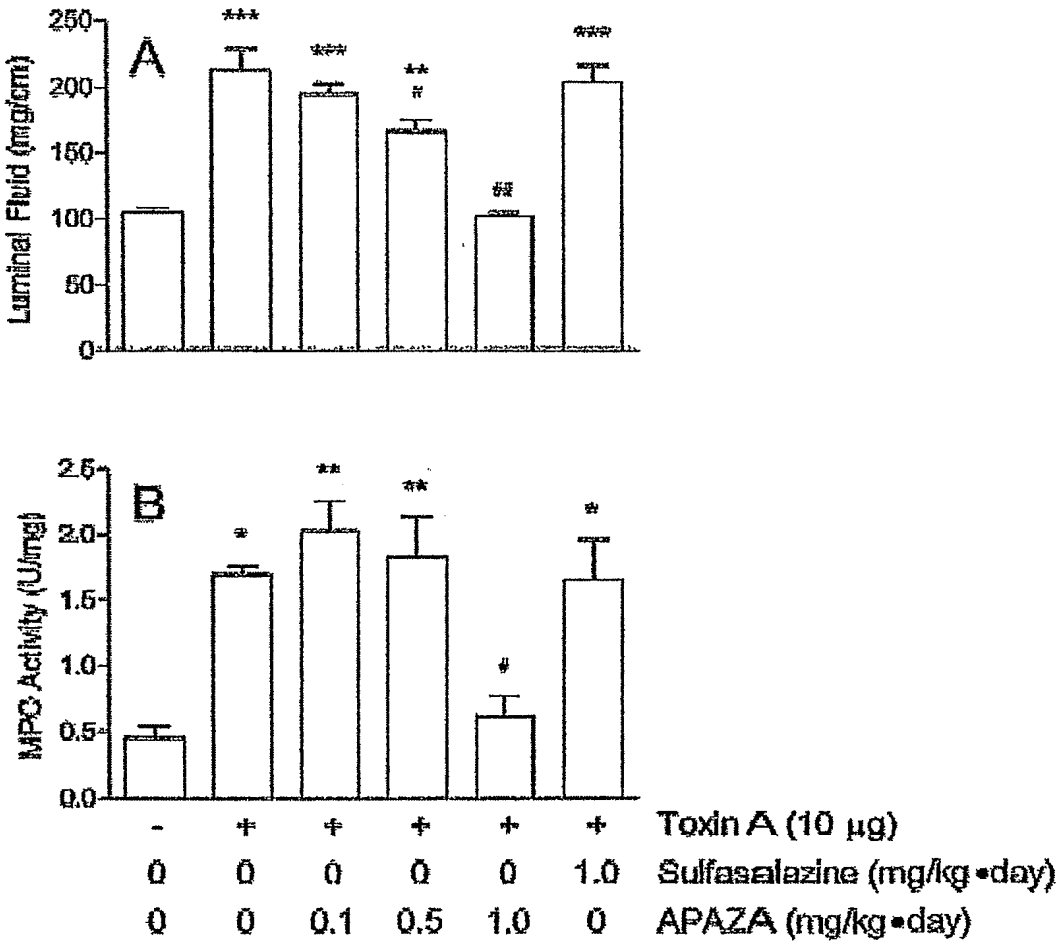
A
Luminal Fluid (mg/cm)
250
200
150
100
50
0
***
***
**
#
##
***
B
MPO Activity (U/mg)
2.5
2.0
1.5
1.0
0.5
0.0
*
**
**
#
*
- + + + + + Toxin A (10 µg)
0 0 0 0 0 1.0 Sulfasalazine (mg/kg•day)
0 0 0.1 0.5 1.0 0 APAZA (mg/kg•day)

FIGURE 12

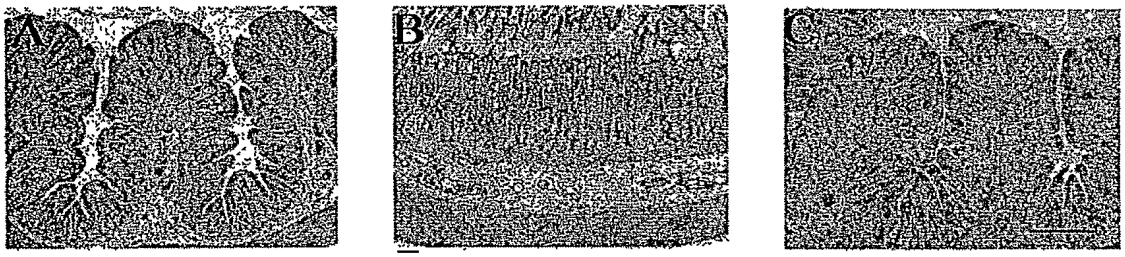

FIGURE 13

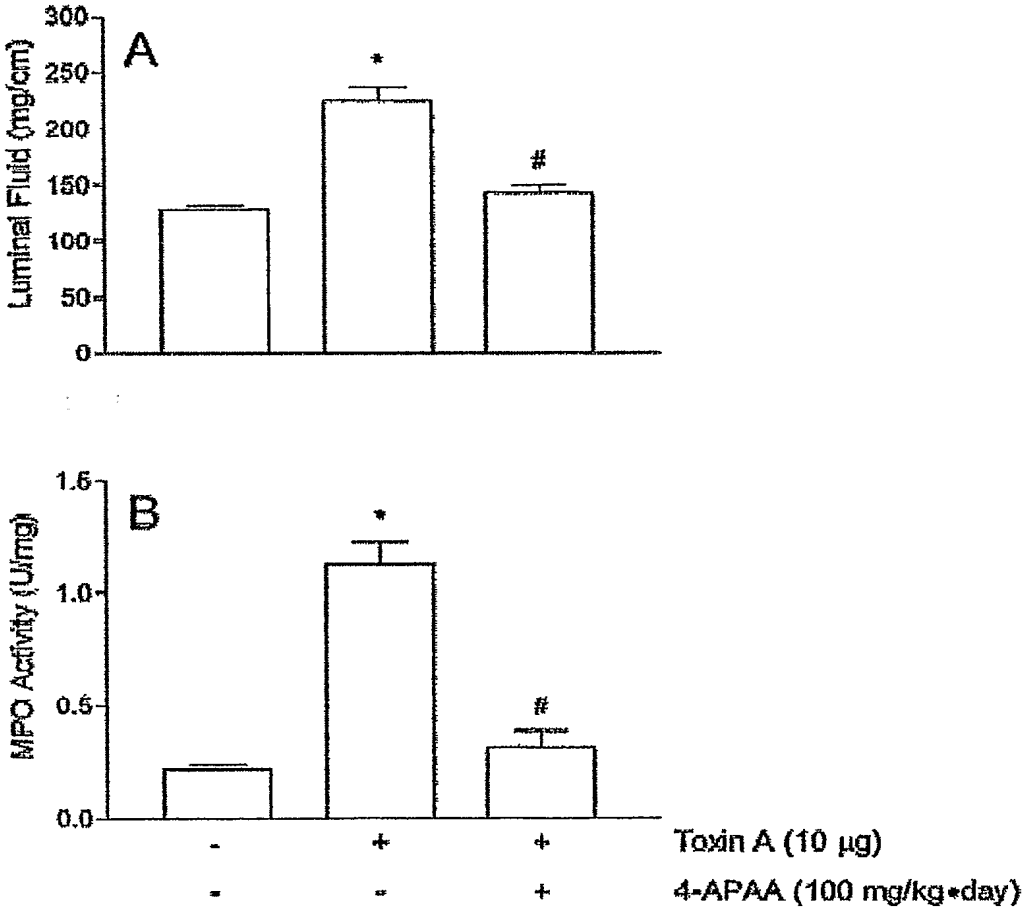
A
Luminal Fluid (mg/cm)
300
250
200
150
100
50
0
*
#
B
MPO Activity (U/mg)
1.5
1.0
0.5
0.0
*
#
-
+
+
Toxin A (10 µg)
-
-
+
4-APAA (100 mg/kg*day)

FIGURE 14

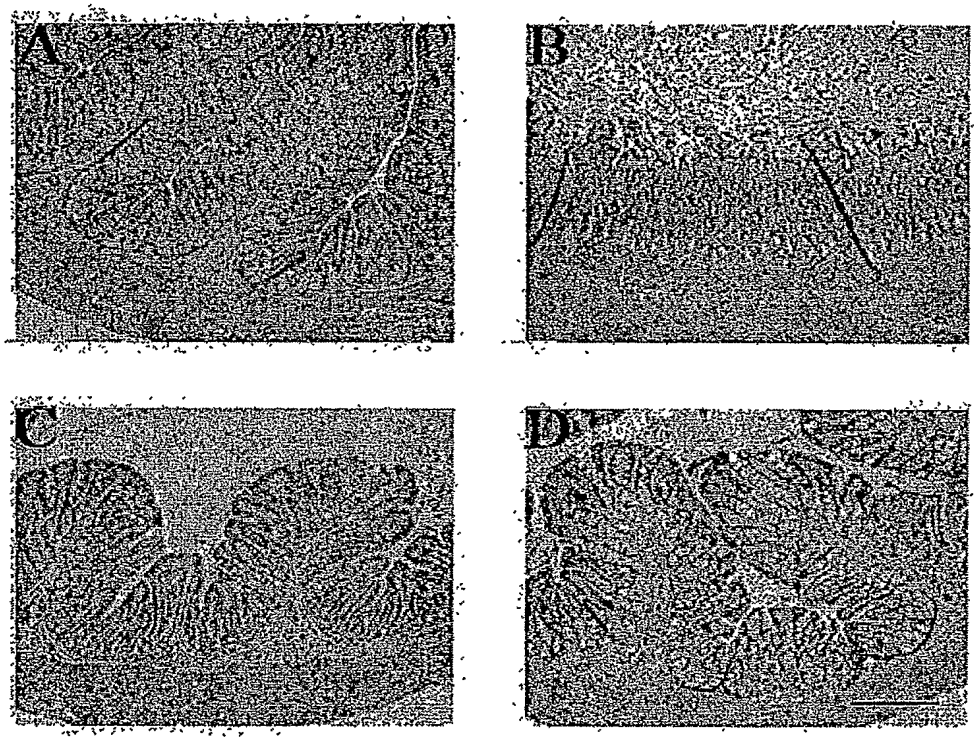

FIGURE 15

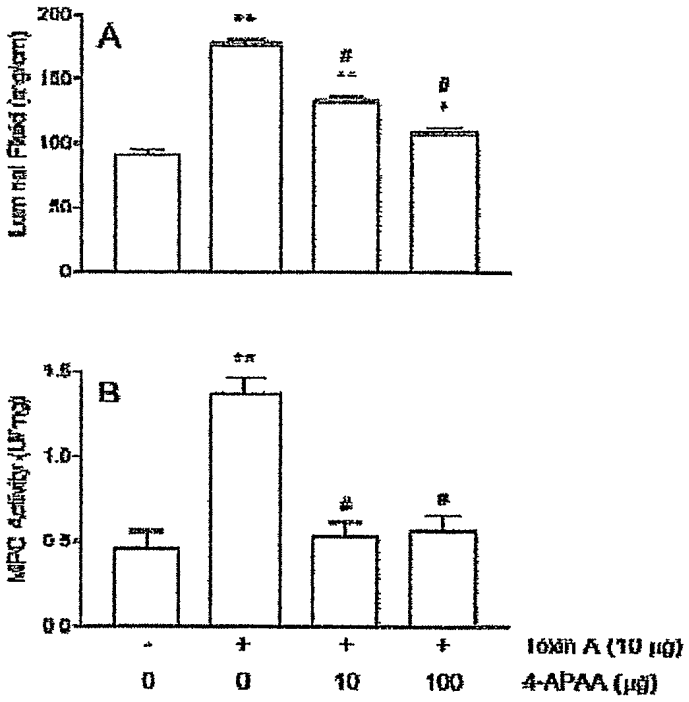

FIGURE 16

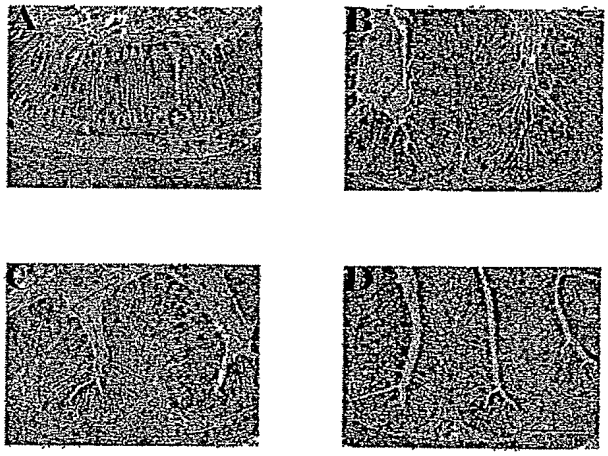

FIGURE 17

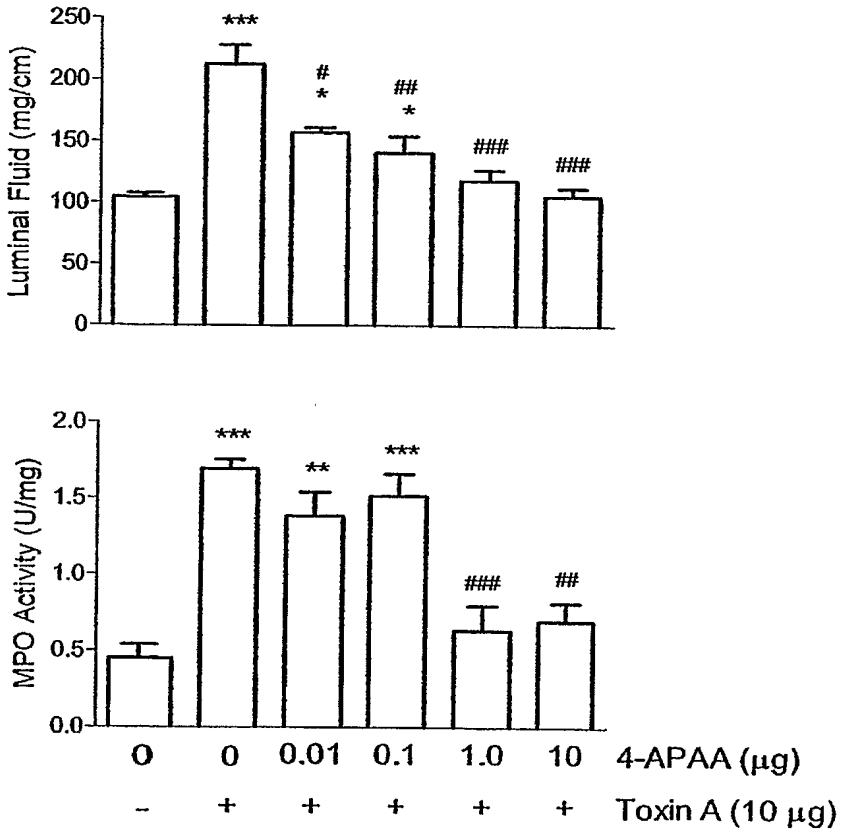
Luminal Fluid (mg/cm)
250
200
150
100
50
0
***
#
*
##
*
###
###
MPO Activity (U/mg)
2.0
1.5
1.0
0.5
0.0
***
**
***
###
##
0 0 0.01 0.1 1.0 10 4-APAA (µg)
- + + + + + Toxin A (10 µg)

FIGURE 18

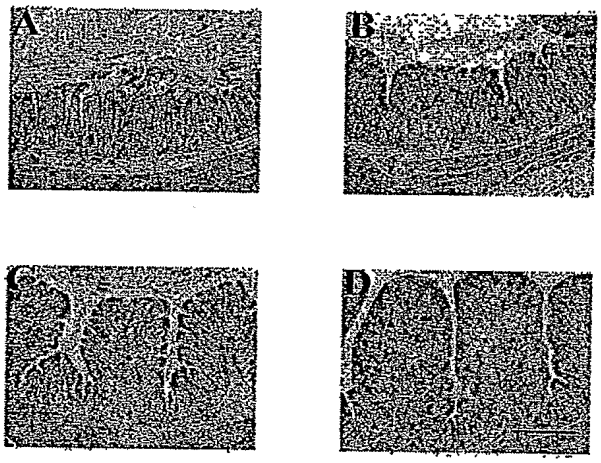

FIGURE 19

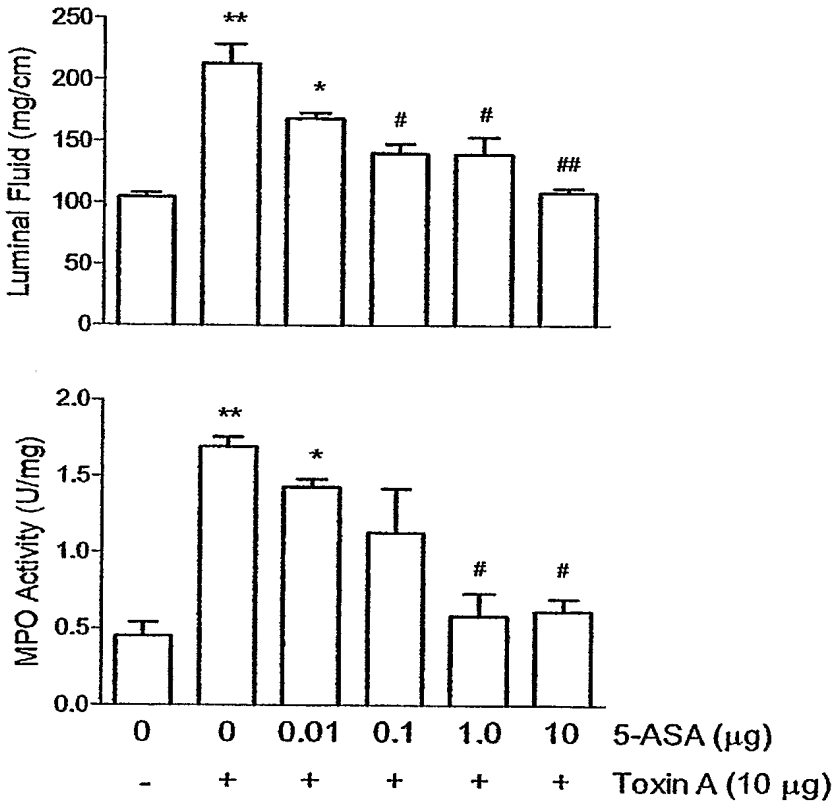
Luminal Fluid (mg/cm)
250
200
150
100
50
0
**
*
#
#
##
MPO Activity (U/mg)
2.0
1.5
1.0
0.5
0.0
**
*
#
#
0 0 0.01 0.1 1.0 10 5-ASA (µg)
- + + + + + Toxin A (10 µg)

FIGURE 20

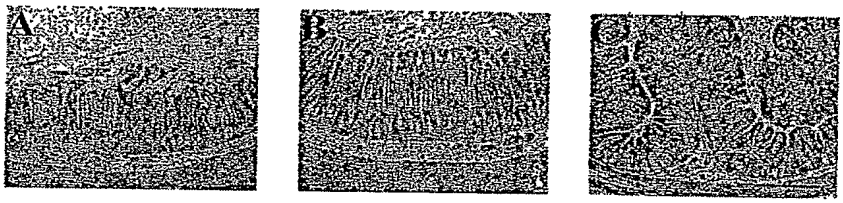

FIGURE 21

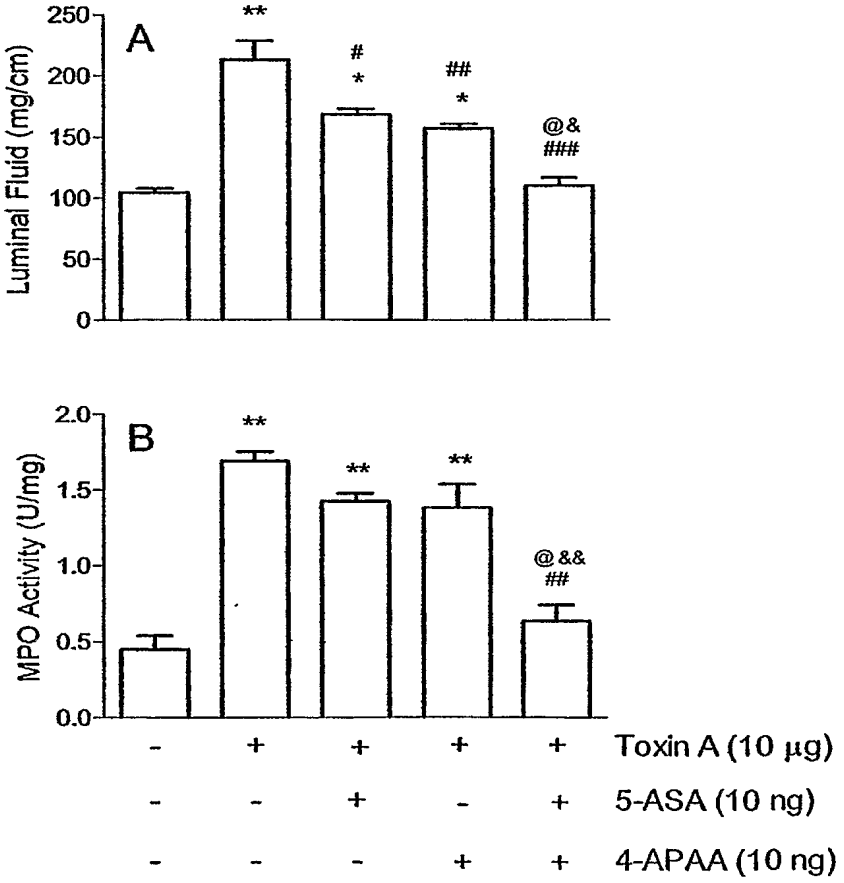
A
Luminal Fluid (mg/cm)
250
200
150
100
50
0
**
#
*
##
*
@&
###
B
MPO Activity (U/mg)
2.0
1.5
1.0
0.5
0.0
**
**
**
@&&
##
- + + + + Toxin A (10 μg)
- - + - + 5-ASA (10 ng)
- - - + + 4-APAA (10 ng)

FIGURE 22